

Florida Department of Environmental Protection

Florida Department of Environmental Protection (FDEP) Update on BMAPs in the South Florida Water Management District

Thursday, August 6, 2015













Presentation Overview

- Water Quality Assessment and Implementation Framework
- Basin Management Action Plans
 - Caloosahatchee Estuary
 - Everglades West Coast
 - Indian River Lagoon
 - St. Lucie River and Estuary
 - Lake Okeechobee Watershed

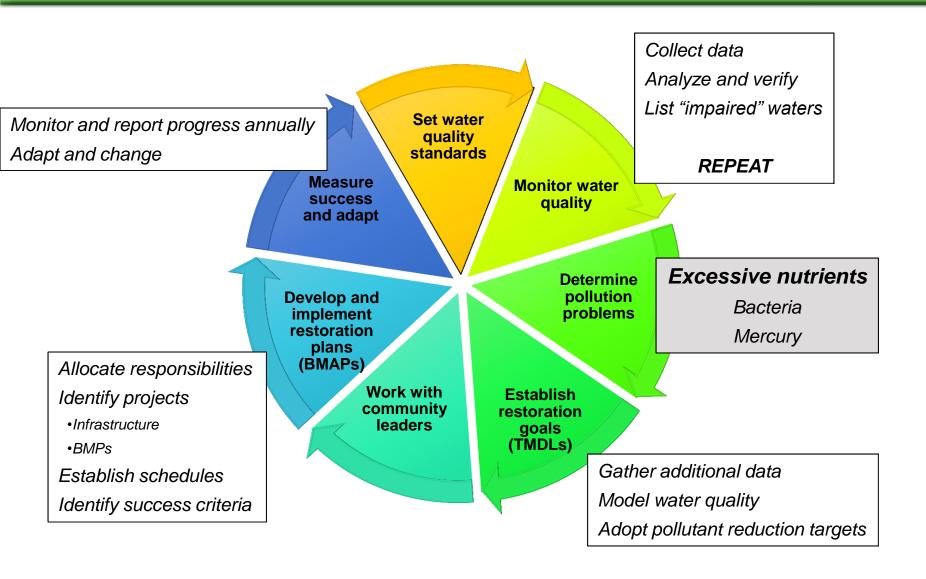








Water Quality Framework





Basin Management Action Plan

- DEP's method for <u>restoring water quality</u> in an impaired water body.
- BMAPs are:
 - Developed with stakeholder input
 - Adopted by DEP through a Secretarial Order
 - Enforceable
 - Implemented through a phased approach
 - Reviewed annually



Agriculture and BMAPs

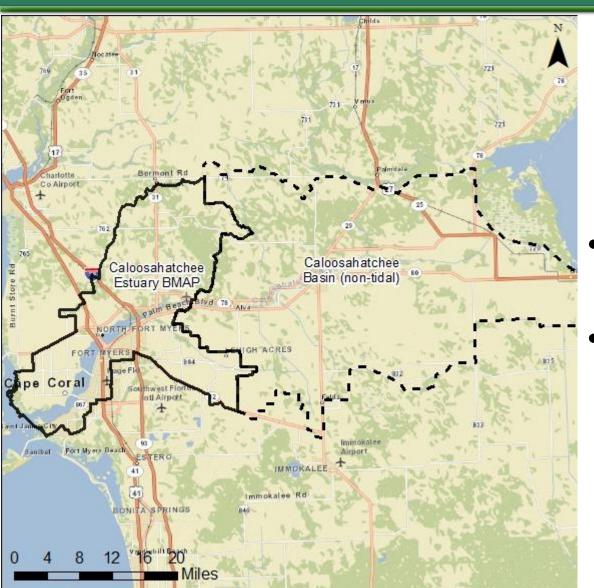
- Agricultural producers within a BMAP:
 - Enroll in Florida Department of Agriculture and Consumer Services (FDACS) Best Management Practices (BMPs);
 or
 - Monitor Water Quality
- Benefits of FDACS enrollment:
 - Presumption of Compliance
 - Eligibility for cost-share funding
 - Technical assistance
 - Improved Water Quality



Regional Adopted BMAPs

- Caloosahatchee Estuary BMAP (Nov 2012)
- Everglades West Coast BMAP (Nov 2012)
 - Hendry Creek
 - Imperial River
- Indian River Lagoon BMAP (Feb 2013)
 - Banana River Lagoon
 - North Indian River Lagoon
 - Central Indian River Lagoon
- St. Lucie River and Estuary BMAP (May 2013)
- Lake Okeechobee BMAP (Dec 2014)





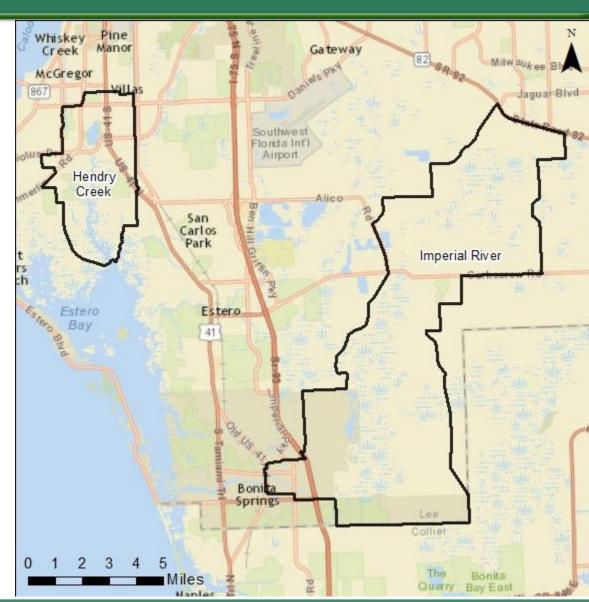
Caloosahatchee Estuary

- BMAP adopted November 2012
- Implements TMDL for the <u>tidal portion</u> of the Caloosahatchee River Basin.



Everglades West Coast

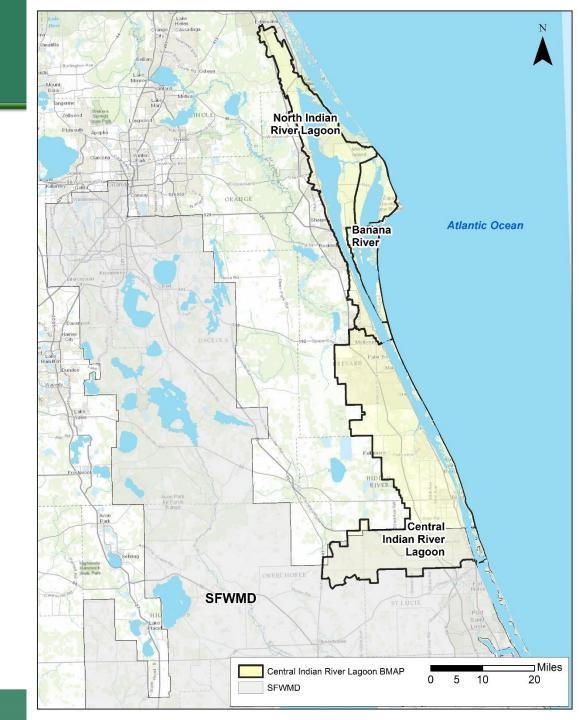
- BMAP adopted November 2012
- Implements TMDLs for Hendry Creek and Imperial River





Indian River Lagoon (IRL)

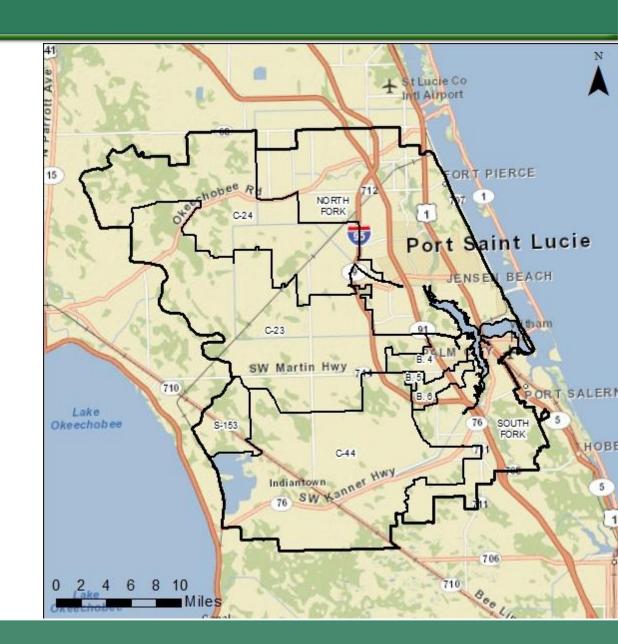
- BMAPs adopted February 2013
- "IRL BMAP" is actually three BMAPs
 - North Indian River Lagoon
 - Banana River Lagoon
 - Central Indian River Lagoon



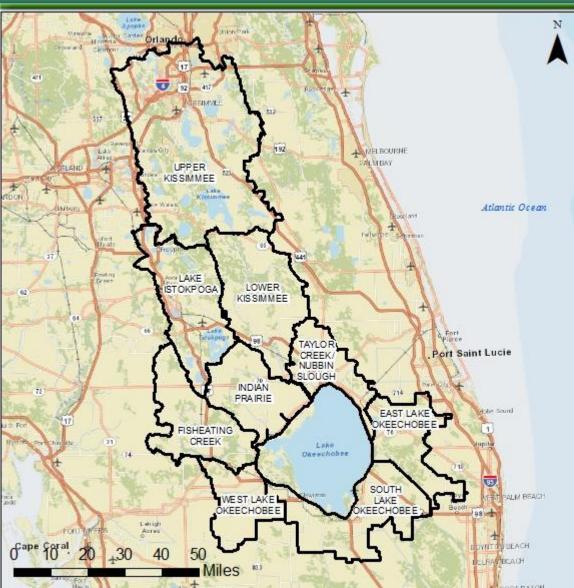


St. Lucie River and Estuary

- BMAP adopted in June 2013
- Aims to achieve reductions in Total Nitrogen and Total Phosphorus







Lake Okeechobee

Phase I of the BMAP focuses on project implementation in the six sub-watersheds north of Lake Okeechobee.

- Upper Kissimmee
- Lower Kissimmee
- Lake Istokpoga
- Indian Prairie
- Fisheating Creek
- Taylor Creek/Nubbin Slough



Lake Okeechobee BMAP Summary of Estimated Reductions

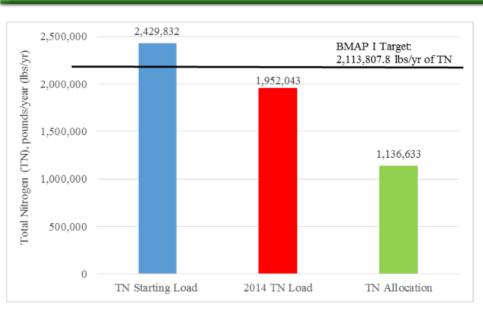
| CATEGORY | TP REDUCTION (MT/YR) |
|---|----------------------|
| Existing Load* | 448 |
| Reductions Needed to Achieve TMDL (105 MT/yr**) | 343 |
| Total Reductions Achieved | 100 |
| Projects Under Development with Coordinating Agencies | 46 - 48 |
| Total Reductions | 145 -148 (42% +/-) |
| Total Reductions Remaining To Meet TMDL | 195 -197 |

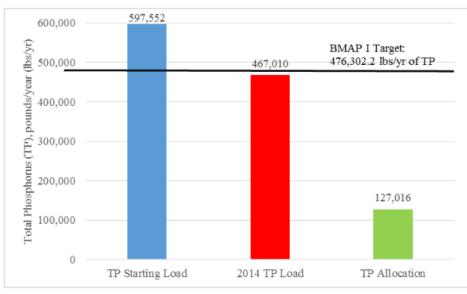
^{*}The existing load is the long-term average as calculated with the WAM load estimation tool. This is calculated using information only for the six northern subwatersheds, although the TMDL applies to all nine sub-watersheds.

^{**}The 105 MT/yr applies to all of the sub-watersheds and is not an allocation to any collection of sub-watersheds.



Making Progress





Progress Towards the St. Lucie River and Estuary **Total Nitrogen** (TN) TMDL through June 30, 2014

Progress Towards the St. Lucie River and Estuary **Total Phosphorus (TP)** TMDL through June 30, 2014

More information on the BMAP webpage:

http://www.dep.state.fl.us/water/watersheds/bmap.htm



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St. Lucie River and Estuary

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Indian River Lagoon